

Work Order ID 161472

Tuesday, May 16, 2017 2:28:29 PM

161472

Page 1

Item ID: D2484 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Locknut
 Start Date: 5/16/2017 Start Qty: 20.00 ***20*** Cust Item ID:
 Required Date: 5/23/2017 Req'd Qty: 20.00 ***20*** Customer:
 Reference:

Approvals: Process Plan: **DAS 21 9-89** Date: **MAY 16 2017** Tooling: Date: Run Start ***NR1***
 QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D2484	Rev A								
100	PURCHASING	0.00				20		MAY 17 2017	DAS 13 9-89
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: 36355 Order per Dwg D2484 Material release note required MCMaster p/n: 91343A100								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	0.40							
Packaging	Ensure Material Release Note is attached								
120	QC5- Inspect part completeness to step on W/O	0.00							
120									
QC	Memo	0.40							
Quality Control									

MAY 23 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
					QC / QA Coordinator Approval				

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date ☐	☐	Manufacturing Process	☐	OTHER : _____			
Misidentified ☐	☐	Past Due	☐				

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Page 2

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <u>GA</u>	0.00							
130									
Packaging	Memo	0.20				<u>20</u>	<u>DAS</u> <u>6</u> <u>9-89</u>		<u>MAY 24 2017</u>
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	2.00							<u>17/5/25</u> <u>9-89</u>
Quality Control									

DAS
21
9-89**MAY 24 2017**

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
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Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Tuesday, May 16, 2017 2:28:32 PM

Page 1

Work Order ID: 161472

Parent Item: D2484

Parent Item Name: Locknut

Start Date: 5/16/2017

Required Date: 5/23/2017

Start Qty: 20.00

Required Qty: 20.00

Comments: IPP A00.03.02New IssueEC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2484P Lock Nut		Purchased	No			110	Each	0.0000	1	20			

2017-5-21

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Misidentified ☐	Past Due ☐																																																																



DESIGN	DRAWN BY	DART AEROSPACE LTD VICTORIA INTERNATIONAL AIRPORT, CANADA	
B WILLIAMS	B WILLIAMS	DRAWING NO.	REV. A
CHECKED BW	APPROVED 	D2484	SHEET 1 OF 1
DATE	TITLE		SCALE
95:10:06	LOCK NUT		

SPECIFICATION CONTROL DRAWING



1/4-20 LOW PROFILE
NYLON LOCK NUT



OR

1/4-20 SERATED FLANGE
LOCK NUT



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 161432 NLS
1705-16

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36355

Purchase Order Date 5/17/2017

PO Print Date 5/17/2017

Page Number 1 of 4

Order From :

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

VU-MCM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA



Contact Name

Vendor Phone 330 995 5500

Ship To Contact

Ship To Phone

Ship Via: Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
	Line Comments		Promise Date				
	Delivery Comments						
1	D2484P	Lock Nut	5/19/2017		20.00	\$0.38	\$7.66
			Yes		Each		
			5/19/2017				

AS PER DWG D2484 REV. A
B161472
MCMAS TER P/N: 91343A100

8017-5-21

Line Total: \$7.66

2	9928K53	UHMW U-Channel	5/19/2017		16.00	\$2.28	\$36.48
			Yes		f		
			5/19/2017				

AS PER DWG D4287 REV. A
B161466

Line Total: \$36.48

Note:

DA
36
9-8

5/17/2017



McMASTER-CARR®

Packing Lis

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO36355
Order Placed By
Chantal Lavoie

McMaster-Carr Number
3417413-02

Page 1 of 1
05/17/2017

Line	Product	Ordered	Shipped
1	91343A100 316 Stainless Steel Serrated Flange Locknut Super-Corrosion-Resistant, 1/4"-20 Thread Size, Packs of 10	2 Packs	2
3	92311A599 18-8 Stainless Steel Cup-Point Set Screw 5/16"-24 Thread, 5/8" Long, Packs of 50	4 Packs	4
4	30365T35 Eye-to-Clevis Swivel - Not for Lifting 316 Stainless Steel, 5-3/4" Long	4 Each	4
6	10815T21 Floating Flashlight 40 Lumens Brightness	4 Each	4
7	2172T11 6-Piece Foam Hardness Sample Pack	1 Pack	1

PO175-21

DAS
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9-89

Expected to ship

5	8555K999 Self-Lubricating MDS-Filled Nylon Sheet 1/32", Thick, 12" X 24", with Lot and Batch Certificate	4 Each	4 Jun 1-7
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Notes about your shipment

The U.S. Department of Transportation regulates the shipping of line 6. By purchasing from McMaster-Carr Supply Company, you agree to transport or permit others to transport purchased items except in accordance with U.S. law and any other applicable laws.

McMaster-Carr Supply Company
200 Aurora Industrial Pkwy
Aurora, OH 44202-8087 USA
Phone: 330-995-5500 Fax: 330-995-9600
E-Mail: cle.sales@mcmaster.com
Employer Identification Number (EIN): 36-1458720

Invoice: 30226615
Purchase Order: PO36355
Release:
McMaster-Carr Number: 3417413-02

ORIGINAL COMMERCIAL
INVOICE
CERTIFICATE OF ORIGIN

Ultimate Destination:
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Shipped: 17-May-2017 FOB: ORIGIN
Shipper's Export Declaration (SED):
NO EEI 30.36

Intermediate Consignee:

Bill To:
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Tax Number:

Forwarding Agent:

Billing
Attention:
Shipping
Attention:
Contact:

Line	Description	Qty & Unit	Unit Price	Extension
1	91343A100 316 Stainless Steel Serrated Flange Locknut Super-Corrosion-Resistant, 1/4"-20 Thread Size, Packs of 10 Country of Origin: Taiwan Schedule B #: 731816 ECCN #: EAR99 NLR	2 PK	\$3.83	\$7.66
3	92311A599 18-8 Stainless Steel Cup-Point Set Screw 5/16"-24 Thread, 5/8" Long, Packs of 50 Country of Origin: Taiwan Schedule B #: 731815 ECCN #: EAR99 NLR	4 PK	\$10.13	\$40.52
4	30365T35 Eye-to-Clevis Swivel - Not for Lifting 316 Stainless Steel, 5-3/4" Long Country of Origin: Peoples Republic of China Schedule B #: 732690 ECCN #: EAR99 NLR	4 EA	\$69.79	\$279.16
6	10815T21 Floating Flashlight 40 Lumens Brightness Country of Origin: Peoples Republic of China Schedule B #: 851310 ECCN #: EAR99 NLR	4 EA	\$5.88	\$23.52
7	2172T11 6-Piece Foam Hardness Sample Pack Country of Origin: United States Schedule B #: 400811 ECCN #: 1C008 NLR	1 PK	\$31.40	\$31.40

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

Shipping Weight (in kgs): 5	Number of Packages: 1	Invoice Amounts:	Merchandise Amount: \$382.26 Canadian GST/HST: \$51.62 Shipping Charges: \$14.80 Total (In USD): \$448.68
Package Dimensions: 31 X 31 X 32 CM = .032 CUBIC M		Payment Terms: 2% discount on merchandise only if paid within 10 days, net 30 days	
Authorized Signature: <i>Sarah Weinberg</i>	Date: 17-May-2017	Remit payment to: (by mail) McMaster-Carr Supply Company PO Box 7690 Chicago, IL 60680-7690 USA (by wire transfer) Bank of America 222 Broadway New York, NY 10038 Account 86666-02021 SWIFT BOFAUS3N	
Name: Sarah Weinberg	Title: Operations Mgr.	Page 1 of 2	

DA
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9-80

SP17-5-21

McMaster-Carr Supply Company
200 Aurora Industrial Pkwy
Aurora, OH 44202-8087 USA

Phone: 330-995-5500

Fax: 330-995-9600

E-Mail: cle.sales@mcmaster.com

Employer Identification Number (EIN): 36-1458720

Invoice: 30226615

Purchase Order: PO36355

Release:

McMaster-Carr Number: 3417413-02

ORIGINAL COMMERCIAL

INVOICE

CERTIFICATE OF ORIGIN

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NOTE

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

NOTE

Tracking number(s) for this shipment:
CPK005484944

8017-5-21